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for the study of physiology by the newest and most approved methods.

The Hallerianum, Kronecker's magnificent physiological laboratory in Berne, has been for years an international center for physiological investigators. English, American, Italian and Russian students went there to learn methods and to be initiated in physiological research. Well-known physiologists often worked in this laboratory, for instance Cyon, Gamgey, Heger and others. At his attractive home, presided over gracefully by Mrs. Kronecker, a cultured lady and an accomplished linguist, one often met celebrated scientists from all over the world. Kühne, Mosso, Bowditch, Schäfer and Foster were often there.

Kronecker was a foreign member of our National Academy of Sciences, of the Royal Society and of many European Academies. He had conferred upon him honorary degrees from a great many universities. In England alone he received the degree of LL.D. from the universities of Glasgow, Aberdeen, St. Andrews and Edinburgh, and the degree of D.Sc. from Cambridge.

He had pupils all over the world. Of American investigators who worked under Kronecker at one time or another I shall mention only the following: Mills, Stanley Hall, Cushing, Gies, H. C. Jackson, H. C. Wood, Jr., Cutter, Carter, Busch, Mühlberg, Mays, McGuire, Arnold and Meltzer.

Before concluding I wish to call attention to the following few incidents which bear witness to the nobility of Kronecker's character. The phenomenon of the "refractory period" which is generally ascribed to Marey, was observed and clearly described by Kronecker one year before Marey. Kronecker never made any effort for the recognition of his priority, and both physiologists remained intimate friends during their entire life. I have mentioned above that Kronecker had a share, at least equal to that of Von Basch, in being one of the first who introduced the era of studying blood pressure in human beings. But when Von Basch and others neglected to give him credit, we find Kronecker nowhere making an effort to obtain his rights.

Kronecker's studies of the nature of mountain disease was a stimulus which gave rise to researches on that subject by many other investigators, among whom I shall mention Zuntz and Loewy and A. Mosso, who came to results differing from those of Kronecker. It was, however, in Kronecker's laboratory that Loewy made the analyses of his results, and I have been a witness of the attractive scene when Mosso was introduced by Kronecker to his students to lecture on Mosso's theory of acapnia as the cause of mountain disease, a theory entirely at variance with that of his own.

Kronecker had many scientific disputes and was often energetic and perseverant in the defense of his views. But he never permitted a personal note to slip into his discussions.

Physiology lost in Kronecker a master and a leader, and numerous physiologists all over the world lost in him a noble and kind-hearted friend.

S. J. MELTZER

ROCKEFELLER INSTITUTE

SCIENTIFIC NOTES AND NEWS

DR. A. PENCK, professor of geography at Berlin; Dr. F. von Luschan, professor of anthropology in the same university, and Dr. J. Walther, professor of geology and paleontology at Halle, are among the German men of science who accepted invitations to attend the Australian meeting of the British Association. It is said that there is some anxiety as to how they shall return home. If press despatches are to be believed, several German astronomers, including Professors Kempff and Ludendorff, who had gone to the Crimea to observe the eclipse of the sun, have been taken prisoners and their scientific instruments confiscated.

THE Paris Academy of Sciences has placed itself at the disposal of the national defense. This resolution having been communicated to the government, members have been placed on commissions on the subjects of wireless telegraphy, aviation, explosives, hygiene and medicine. The academy is said to be continuing its meetings. A paper was presented at the last meeting of which reports are at hand on the recent eclipse of the sun by Messrs. Bail-laud and Bigourdan, of the Paris Observatory.

THE Paris Academy of Medicine has decided unanimously that all its members will place themselves at the disposal of the government for any purpose for which they may be useful to the country. It has asked to be given the necessary animals and apparatus for manufacturing and applying small-pox and antityphoid vaccines.

THE British pharmaceutical committee, which is advising the government on the question of the rise in price of various drugs, is said to be holding frequent meetings. It consists of Messrs. Edmund White, E. T. Nethercoat, C. A. Hill, John C. Umney and W. J. U. Woolcock. Information is in the hands of the committee to the effect that the prices of certain drugs are inflated by reason of the action of particular dealers.

DR. AUG. AGNEUR, formerly professor of medicine at Lyons, and recently minister of education in the French government, has become minister of marine.

MR. ADOLPH ROLLOFF, director of the State Botanical Garden in Tiflis, Russia, is visiting the botanical gardens of the United States.

AN Institute of Oceanography has been established in Spain under the direction of Professor Odón de Buen.

THE Ohio State Board of Administration has established a psychological bureau to study and care for juvenile delinquents. In addition to the chief of the bureau, whose salary is \$3,500 a year, a staff of eight assistants is planned, including three psychologists, a diagnostician and a bacteriologist. Dr. Thomas H. Haines, professor of psychology in the Ohio State University, has been appointed chief of the bureau.

THE Thirteenth Intercollegiate Geological Excursion will be held in the vicinity of Daltin on October 16 and 17, under the direction of Professor B. K. Emerson. A preliminary meeting will be held at the Wendell in Pittsfield on October 16 at 7:30.

THE home of Mr. Wallace Craig, at Orono, Me., was ruined by fire on August 16. The pigeons whose social behavior was under investigation were destroyed. However, the ex-

periments on these individual birds were practically finished, and after rebuilding and buying a new flock of pigeons for observation, Mr. Craig will write up the results of his investigation.

PROFESSOR OLIVER C. LESTER, of the University of Colorado, has been in charge of a geological survey party studying the radium deposits in the southern part of the state.

DR. J. J. TAUBERHAUS, previously assistant pathologist of the Delaware College Agricultural Experiment Station, has been promoted to be associate research plant pathologist.

DR. HAROLD C. BRYANT, assistant curator of birds in the University of California museum of vertebrate zoology, who for the past year has engaged in studying the game birds of California, has accepted a position with the California State Fish and Game Commission. Although research work on the game birds and mammals of the state will be carried on, his work will be largely educational, as the commission believes that the protection and preservation of game is more effectually furthered by an appreciation of the value of this resource than through the maintenance of a large police force. Dr. Bryant's work on game birds in the museum of vertebrate zoology will be assumed by Tracy I. Storer, M.S., of the department of zoology of the University of California.

DR. ADOLF REMELE, professor in the forest school at Eberswald, has celebrated his seventy-fifth birthday and the fiftieth anniversary of his doctorate.

DR. EUGENE KORSCHEL, professor of zoology at Marburg, has been elected rector of the university for the coming year.

DR. AUGUST GÄRTNER, professor of hygiene at Jena, has retired from active service.

"THE Nature and Control of Hunger" was the subject of two lectures at the University of Chicago on August 19 and 20, by Associate Professor Anton Julius Carlson, of the department of physiology. On August 21 Associate Professor Henry Chandler Cowles, of the department of botany, concluded his series

of illustrated lectures on "Botanical Rambles in the West," the subject of this lecture being "Our Southwestern Desert."

DR. THOMAS H. GLENN, formerly in charge of the pathologic and bacteriologic laboratories of the Northwestern University, Chicago, has been placed in charge of the clinical and Röntgen-ray laboratories now being installed at Fort Dodge.

PROFESSOR KR. BIRKELAND returned to Christiania in July after a sojourn of seven months in Africa, where he continued his researches on the zodiacal light. He will return in October and continue the observations for three years.

A COURSE of twelve lectures on the theory and practise of radio-telegraphy will be delivered by Professor J. A. Fleming at University College, London, on Wednesdays at 5 p.m., beginning on October 28.

DR. JAMES ELLIS GOW, professor of botany in Coe College, the author of contributions on the embryology and morphology of plants, has died at the age of thirty-seven years.

WE have to record somewhat late the death of Overton Westfield Price, at one time associate forester of the U. S. Forest Service, for the internal administration of which he was largely responsible during the term of office of Mr. Pinchot.

SIR JOHN BENJAMIN STONE, for many years a member of the British parliament, known to scientific men for his photographs of scientific places, objects and men, has died at the age of seventy-six years.

UNIVERSITY AND EDUCATIONAL NEWS

THE Medical School of Western Reserve University receives by the will of Liberty E. Holden a bequest said to be nearly one million dollars. The fund is to be known as the Albert Fairchild Holden Foundation, in memory of Mr. Holden's son.

DR. HERMON CAREY BUMPUS, business manager of the University of Wisconsin, formerly director of the American Museum of Natural History, has been elected president of Tufts College.

THE *Journal* of the American Medical Association states that Dr. Daniel A. K. Steele has been appointed senior dean and head of the department of surgery in the college of medicine of the University of Illinois; Dr. Charles Spencer Williamson, professor of medicine and head of the department; Dr. Charles Summer Bacon, professor of obstetrics and head of the department of obstetrics and gynecology; Dr. Julius Hays Hess, associate professor of pediatrics and head of the division of pediatrics; Dr. Norval Pierce, professor of otology; Dr. Joseph C. Beck, associate professor of laryngology and rhinology and head of the division; Dr. Oscar Eugene Nadeau, instructor in surgical pathology; Dr. A. O. Shoklee, associate professor of pharmacology; Dr. Roy L. Moodie, instructor in anatomy, and Dr. C. S. Smith, instructor in physiological chemistry.

PROFESSOR H. H. LANE, head of the department of zoology at the University of Oklahoma, has been granted a sabbatical leave of absence on half salary, to carry on research work at Princeton University. Dr. W. C. Allee, formerly instructor in zoology in Williams College, will be acting head of the department, to which he will be permanently attached as assistant professor.

EDWARD J. KUNZE, of the Michigan Agricultural College, has been appointed professor of mechanical engineering in charge of the department of mechanical engineering at the Oklahoma Agricultural and Mechanical College.

DR. ERNEST SACHS, associate in surgery at Washington University Medical School, St. Louis, Mo., has been appointed associate professor of surgery at the same institution.

F. L. PICKETT, sometime instructor in botany at Indiana University, and for the past year research fellow at the same institution, has been appointed associate professor of plant physiology at Washington State Agricultural College.

JAMES CLARENCE DE VOSS, M.A. (Colorado, '12), has been appointed professor of psychology and education in the Kansas State Normal School at Emporia.